

CIC #: 99EPA SUPERFUND

Billed Date: 01-Feb-2011

Customer Order Number DW96957731

DIAMOND HEAD OU1 329881 BZ801

EPA 640

VOUCHER FOR TRANSFERS  
BETWEEN APPROPRIATIONS AND/OR FUNDS (AR 37-1)

Mission Assignment No:

D.O. Voucher No.

BU. Voucher No.

Bill No.

Paid By Check No.

Collection Vou. No.

27052015

Partial # 15 03-Jan-2011 Thru 01-Feb-2011

Billed Office (Mail To):

U S ENVIRONMENTAL PROTECTION AGENCY  
ACCOUNTING OPERATIONS OFFICE  
26 W MARTIN LUTHER KING DRIVE  
CINCINNATI OH 45268-7002

Billing Office (Send Remittance To):

USACE FINANCE CENTER G5  
KANSAS CITY DISTRICT G5  
5720 INTEGRITY DRIVE

MILLINGTON TN 38054-5005

Billed Accounting Classification

68 NA X 8145.0000 2010 00 0000 012731 0000 00000

\$6,521.87

Billing Accounting Classification

96 NA X 3122.0000 G5 08 2416 868 012731 96231

\$6,521.87

Line Item	Moa	Description	Eaid No	Amount
1	INHOUSE - OTHER RESOURCES	SUPERFUND M&S		\$688.67
1	INHOUSE - LABOR	DEPARTMENTAL OVERHEAD COSTS		\$1,773.04
1	INHOUSE - LABOR	GENERAL AND ADMINISTRATIVE OVERHEAD COSTS		\$514.18
1	INHOUSE - LABOR	LABOR		\$3,545.98
Subtotal:				\$6,521.87

CORPS CERTIFICATION

"I CERTIFY THAT THE ABOVE ARTICLES WERE DELIVERED AND OR THE SERVICES PERFORMED AS STATED AND THAT THE PAYMENT REQUESTED IS CORRECT TO THE BEST OF MY KNOWLEDGE, AND SHOULD BE PAID AND CHARGED TO THE APPROPRIATION(S) OR FUNDS AS INDICATED."

24 Mar 11  
DATE

*Elizabeth A Buckrocker*  
SIGNATURE  
Elizabeth A Buckrocker  
Project Manager

Total Billed Amount:	\$6,521.87
Less Partial Amount Paid:	\$0.00
Payment Due Date: 03- Mar- 2011	Pay This Amount: \$6,521.87

Funds Authorized:	\$174,000.00
Total Billed Amount:	\$85,107.77
Prev Billed Amount:	\$78,585.90
Current Billed Amount	\$6,521.87
Total Flux Billed:	\$0.00
Prev Flux Billed:	\$0.00
Current Flux Billed:	\$0.00

CERTIFICATE OF OFFICE BILLED  
I certify that the above articles were received and accepted or the services performed as stated and should be charged to the appropriation(s) and/or fund(s) as indicated above, or that the advance payment requested is approved and should be paid as indicated.

Date:

Authorized Administrative or Certifying Officer

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND HEAD OIL REFINERY, NJ

IA Number: DW96957731

MONTHLY REPORT FOR JANUARY 2011

	Revised Reimbursable (96X3122)	Direct Fund Cite	IA Totals (96X3122)
STATEMENT OF CHARGES FOR PERIOD:			
Total Funds Authorized:	\$174,000.00	\$1,046,000.00	\$1,220,000.00
Less Total Expenditures: (-)	\$85,107.77	\$226,291.61	\$311,399.38
Less Undelivered Orders: (-)	\$0.00	\$819,708.39	\$819,708.39
Less Commitments: (-)	\$23,767.76	\$0.00	\$23,767.76
Funds Available Balance:	\$65,124.47	\$0.00	\$65,124.47

BILLING ACTIVITY (96X3122):

Bill Number: 27052015

Funds Expended During Report Period: \$6,521.87  
Total Billed to Date: ✓\$85,107.77

DIRECT FUND CITE PAYMENTS:

Funds Expended During Report Period: \$43,357.50  
Total Expended to Date: ✓\$226,291.61

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND HEAD OIL REFINERY, NJ

IA Number: DW96957731

Bill Number: 27052015

Bill Invoice Date: 01-FEB-2011

Monthly Billing Amount(95X3122): \$6,521.87

Monthly Direct Fund Cite Contract Cost(68X8145): \$43,357.50

Budget Categories	Costs for Current Month	Prior Month's Summary	Project Costs to Date
a Personnel	\$2,363.56	\$26,120.68	\$28,484.24
b Fringe Benefits	\$1,182.42	\$13,882.22	\$15,064.64
c Travel	\$0.00	\$9,654.16	\$9,654.16
d Equipment	\$0.00	\$0.00	\$0.00
e Supplies	\$0.00	\$0.00	\$0.00
f Procurement	\$0.00	\$0.00	\$0.00
g Construction	\$0.00	\$0.00	\$0.00
h Other	\$688.67	\$3,610.73	\$4,299.40
i Total Direct Charges	\$4,234.65	\$53,267.79	\$57,502.44
j Total Indirect Charges	\$2,287.22	\$25,318.11	\$27,605.33
k TOTAL	\$6,521.87	\$78,585.90	\$85,107.77

LABOR BREAKOUT FOR MONTH:

Individual	Location	Function	Hours	Labor Amount
SHELLY M ALLEN	KANSAS CITY DISTRICT	PROGRAM ANALYST	4.00	\$369.93
ELIZABETH BUCKRUCKER	KANSAS CITY DISTRICT	HTRW PROJECT MANAGER	25.50	\$3,035.46
GREGORY NE HATTAN	KANSAS CITY DISTRICT	GEOLOGIST	18.75	\$1,628.84

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND HEAD OIL REFINERY, NJ

LABOR BREAKOUT FOR MONTH:  
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Individual -----	Location -----	Function -----	Hours -----	Labor Amount -----
SANDRA A. DODGEN	KANSAS CITY DISTRICT	SECRETARY (OA)	1.75	\$87.04
DAVID M EVANS	KANSAS CITY DISTRICT	CHEMIST	4.00	\$381.19
JULIA K KISSER	KANSAS CITY DISTRICT	SUPV GEOLOGIST	1.50	\$200.76
ROBERT M PENDER, JR	KANSAS CITY DISTRICT	HTRW PROJECT MANAGER	1.00	\$129.98
TOTAL LABOR:			56.50	\$5,833.20

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND HEAD OIL REFINERY, NJ

IA Number: DW96957731AA

MONTHLY REPORT FOR JANUARY 2011

	Revised Reimbursable (96X3122)	Direct Fund Cite	IA Totals (96X3122)
STATEMENT OF CHARGES FOR PERIOD:			
Total Funds Authorized:	\$174,000.00	\$1,046,000.00	\$1,220,000.00
Less Total Expenditures: (-)	\$85,107.77	\$226,291.61	\$311,399.38
Less Undelivered Orders: (-)	\$0.00	\$819,708.39	\$819,708.39
Less Commitments: (-)	\$23,767.76	\$0.00	\$23,767.76
Funds Available Balance:	\$65,124.47	\$0.00	\$65,124.47

BILLING ACTIVITY (96X3122):

Bill Number: 27052016

Funds Expended During Report Period: \$6,521.87  
Total Billed to Date: \$85,107.77

DIRECT FUND CITE PAYMENTS:

Funds Expended During Report Period: \$43,357.50  
Total Expended to Date: \$226,291.61

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND HEAD OIL REFINERY, NJ

IA Number: DW96957731AA

Bill Number: 27052016  
Bill Invoice Date: 01-FEB-2011

Monthly Billing Amount(96X3122): \$6,521.87

Monthly Direct Fund Cite Contract Cost(68X8145): \$43,357.50

Budget Categories	Costs for Current Month	Prior Month's Summary	Project Costs to Date
a Personnel	\$0.00	\$0.00	\$0.00
b Fringe Benefits	\$0.00	\$0.00	\$0.00
c Travel	\$0.00	\$0.00	\$0.00
d Equipment	\$0.00	\$0.00	\$0.00
e Supplies	\$0.00	\$0.00	\$0.00
f Procurement	\$0.00	\$0.00	\$0.00
g Construction	\$0.00	\$0.00	\$0.00
h Other	\$0.00	\$0.00	\$0.00
i Total Direct Charges	\$0.00	\$0.00	\$0.00
j Total Indirect Charges	\$0.00	\$0.00	\$0.00
k TOTAL	\$0.00	\$0.00	\$0.00
TOTAL LABOR:		0.00	\$0.00

## Progress Report for EPA Region II

Site:	Diamond Head Oil Refinery, NJ Remedial Design Operable Unit 1		Phase:	Remedial Design – OU1	
Bill No.:	27052015; Partial #15	IAG No.:	DW96957731/BZ801 IAG Award Date: 12/02/09	IAG Expiration Date:	Other Corps P2: 329881/FWI: G0C947
Reporting Period:	From: January 3, 2011	To: February 1, 2011	EPA RPM Grisell Diaz-Cotto	USACE PM Elizabeth Buckrucker	

Work Performed	
<i>This Period</i>	<ul style="list-style-type: none"> <li>• Task Order 0004 Invoices. On 14 Jan 11, reviewed and approved Invoice 9, totaling \$43,357.50, for period 30 Oct 10 – 26 Nov 10.</li> <li>• Funding. <ul style="list-style-type: none"> <li>○ The funding requirements submitted to EPA on 16 Dec 10, will require updating. Several factors will influence the timing and funding needs, including: <ul style="list-style-type: none"> <li>▪ Presence of dioxin in LNAPL samples taken under the OU2 investigation.</li> <li>▪ Bench scale issues that require additional analysis and potentially longer duration to conduct the bench scale.</li> </ul> </li> </ul> </li> <li>• Pre-Design Investigation (PDI). <ul style="list-style-type: none"> <li>○ On 3 Jan 11, received the final LNAPL results with dioxin analysis; no changes from the preliminary results. These results are being validated under the OU2 program.</li> <li>○ On 3 Jan 11, bench scale soil analysis for dioxin began at Axys Analytical under OU2.</li> <li>○ On 6 Jan 11, discussed the overall project impacts of these results with J. Hess and future planning steps necessary to incorporate additional dioxin investigation.</li> <li>○ On 11 Jan 11, conference call held with CH2 and Corps to discuss bench scale issues including the CO2 detector interferences and the apparent production of methane. It was decided to run methane off gas samples from column 5 to determine if there are false positives. Provided follow up email to J. Hess (cc: G. Diaz-Cotto who was unable to take the call) with management level items to address: <ul style="list-style-type: none"> <li>▪ pH adjustment attempt was not successful; future discussion required as this may have OUI design impacts if pH cannot be adjusted.</li> <li>▪ Microblaze product is not adapted to pH above 10, therefore might be necessary to determine if other products are available that are adapted to higher pH.</li> <li>▪ Production of CO being a sign of possible transition from anaerobic to aerobic per T. Palia. Important to have any literature to confirm this possibility and also the transition duration expected for this process to occur.</li> </ul> </li> <li>○ Continued discussions with CH2 during the reporting period and several calls were held among the team to talk about specific details of the instruments, the column set up and other items that may be affecting the bench scale test.</li> <li>○ On 24 Jan 11, provided an email summary to G. Diaz-Cotto with key issues identified. Several technical issues exists which could hinder the aerobic degradation of hydrocarbons and the purpose of the summary was early alert to EPA of these concerns.</li> <li>○ On 25 Jan 11, received the Month #2 Biocell Bench Test results (series of excel tables) and reviewed with G. Hattan all system tests and analytical results to date. Provided email summary to G. Diaz-Cotto noting areas of potential concern and overall view that aerobic biodegradation in the columns may not be occurring at this point.</li> <li>○ On 26 Jan 11, conference call held with EPA and CH2 to discuss the bench scale progress. Discussed all issues and concerns of the team. Reviewed minutes prepared by J. Hess and discussed comments with her as some conclusions being drawn by CH2 technical personnel are not quite the same as the Corps team. On 27 Jan 11, provided follow up email to G. Diaz-Cotto with recommendation for path forward.</li> <li>○ On 31 Jan 11, received the cost proposal for performing the PLFA analysis on the bench scale soil currently in the columns. Conference call scheduled early in February to discuss and approve this analysis.</li> </ul> </li> </ul>

## Progress Report for EPA Region II

	<ul style="list-style-type: none"> <li>Schedule. The current project schedule is dated 30 Nov 10. Further updates are pending decisions on some of the changes to project tasks.</li> <li>Contract Task Order 0004; WVN4. <ul style="list-style-type: none"> <li>On 3 Jan 11, WVN4 was submitted for approval. On 6 Jan 11, reviewed and provided comment.</li> <li>On 7 Jan 11, WVN4 was approved.</li> </ul> </li> <li>Preparation of Progress Report and Project Expenditures spreadsheet.</li> </ul>
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<i>Key Meetings This Period</i>	<ul style="list-style-type: none"> <li>Conference calls held are noted in progress portions of this report.</li> </ul>
<i>Key Contract Milestones Completed to Date</i>	<ul style="list-style-type: none"> <li>2 Dec 2009; New IA funding received totaling \$300,000</li> <li>10 Feb 2010; Base Task Order 0002 awarded, totaling \$255,000.</li> <li>6 Apr 2010, IA Amendment #1 funding received totaling \$170,000; for total IA value of \$470,000.</li> <li>13 Aug 2010, Task Order 0002, Modification 1 was awarded for \$141,000.</li> <li>29 Sep 2010; IA Amendment #2 funding received totaling \$750,000; for total IA value of \$1,220,000.</li> <li>2 Nov 2010; Task Order 0002; Modification 2 was awarded for \$650,000</li> </ul>
<i>Contractor Actions/ Accomplishments</i>	<ul style="list-style-type: none"> <li>Management tasks included communication and invoicing. Established an FTP site.</li> <li>Prepared and submitted information for the second bench scale status conference call. Participated and provided status during conference call to discuss the bench scale progress.</li> <li>Continue to implement the bench scale test and weekly sampling.</li> <li>Details of the CH2 work during this period are contained in the CH2M Hill Progress Report Number 11 for January 2011.</li> </ul>

## Projected Work, Meetings Milestones through next FY.

<i>Narrative</i>	<ul style="list-style-type: none"> <li>Work planned for FY11 and completed actions to date includes: <ul style="list-style-type: none"> <li>Pre-Design Investigation LNAPL Sampling (occurred 27 Sep 10 – 1 Oct 10)</li> <li>Phase 1 Bench Scale Study (began 12 November 2010) <ul style="list-style-type: none"> <li>PLFA Analysis (planned to begin in February 2011)</li> </ul> </li> <li>Phase 1 Bench Scale report/Phase 2 Bench Scale determination (meeting planned for April 2011)</li> <li>Pre-Design Field Investigation (on hold)</li> </ul> </li> </ul>
<i>Meetings</i>	<ul style="list-style-type: none"> <li>TBD; no specific meetings set</li> </ul>
<i>Key Milestones Forthcoming</i>	<ul style="list-style-type: none"> <li>5 May 2010 –Final Data Needs Technical Memorandum submitted (complete)</li> <li>31 Aug 2010 –Final Pre-Design Investigation Work Plan submitted (complete)</li> <li>The below dates are estimates as the schedule continues to evolve with changes in the planned approach for both Phase 1 and 2 bench scale test.</li> <li>~February 2011: Receive Phase 1 Bench Scale lab results</li> <li>~March 2011: Submit Draft Phase 1 Bench Scale test results</li> <li>~April 2011: Meeting to discuss Phase 1 Results/Phase 2 discussion and decision</li> </ul>



## Progress Report for EPA Region II

Issues	
<b>Technical:</b>	<ul style="list-style-type: none"> <li>Phase 1 Bench Scale technical issues which are currently being discussed among the team: <ul style="list-style-type: none"> <li>High Soil pH</li> <li>CO2 production minimal</li> <li>VOC levels not decreasing</li> </ul> </li> </ul>
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>The current schedule is dated 30 November 2010 and does not reflect the current status. The update will occur when more Phase 1 information is available to make future decisions on bench scale tests and other analysis occurring.</li> </ul>
<b>Funding:</b>	<ul style="list-style-type: none"> <li>No immediate funding needs. Future funding requirements will be determined as the bench scale progresses and the timing of future tasks are more clearly determined.</li> </ul>

IAG Summary						
Amendment Funding				Cumulative Funding		
USACE	Direct Fund Cite	Amend #	Date	USACE	Direct Fund Cite	Total IAG
\$45,000	\$255,000	Initial	12/2/09	-	-	\$300,000
\$29,000	\$141,000	1	4/6/10	\$74,000	\$396,000	\$470,000
\$100,000	\$650,000	2	9/29/10	\$174,000	\$1,046,000	\$1,220,000

Expenditures: USACE and Direct Fund Cite				
Summary of Funds Spent Per Activity & Funding Remaining				
Description	Funds for Activity	Funds Disbursed this Month	Funds Disbursed to Date	Funds Not Disbursed
Contract - CH2M Hill W912DQ-08-D-0016; Task Order 0004 - awarded 10 Feb 10	\$255,000.00	\$43,357.50	\$226,291.61	\$28,708.39
Contract - CH2M Hill W912DQ-08-D-0016; Task Order 0004/Mod 1 - awarded 13 Aug 10	\$141,000.00	\$0.00	\$0.00	\$141,000.00
Contract - CH2M Hill W912DQ-08-D-0016; Task Order 0004/Mod 2 - awarded 2 Nov 10	\$650,000.00	\$0.00	\$0.00	\$650,000.00
<b>Subtotal - Summary of DFC Contract Dollars</b>	<b>\$1,046,000.00</b>	<b>\$43,357.50</b>	<b>\$226,291.61</b>	<b>\$819,708.39</b>
Kansas City Corps In-House Labor/Travel	\$156,900.00	\$5,833.20	\$80,808.37	\$76,091.63
Superfund M&S Fee	\$17,100.00	\$688.67	\$4,299.40	\$12,800.60
<b>Subtotal - Labor/M&amp;S</b>	<b>\$174,000.00</b>	<b>\$6,521.87</b>	<b>\$85,107.77</b>	<b>\$88,892.23</b>
<b>Grand Total - Contract/Corps</b>	<b>\$1,220,000.00</b>	<b>\$49,879.37</b>	<b>\$311,399.38</b>	<b>\$908,600.62</b>

## Progress Report for EPA Region II

## IAG Project Description (block 12 of IA)

Base IA: USACE Kansas City District (DOD964126) to perform Remedial Design activities for Operable Unit 1 at the Diamond Head Oil Superfund Site (EPA Site D#NJD092226000).

## Project Delivery Team

<i>Name</i>	<i>Contact Information</i>	<i>Responsibility</i>
Beth Buckrucker	(816) 389-3581 Cell: (816) 695-5797	Project Manager
Greg Hattan	(816) 389-3579	Project Geologist
Dave Evans	(816) 389-3857	Project Chemist
Jason L'Ecuier	(816) 389-3908	Project Process Engineer
Bonnie Lowe	(816) 389-3803	Contract Specialist
Trudy Shannon	(816) 389-3822	Contracting Officer
Scott Young	(816) 389-3589	Contracting Officer Representative

Prepared by:  
Elizabeth Buckrucker  
Project Manager  
24 March 2011